

# Inositol

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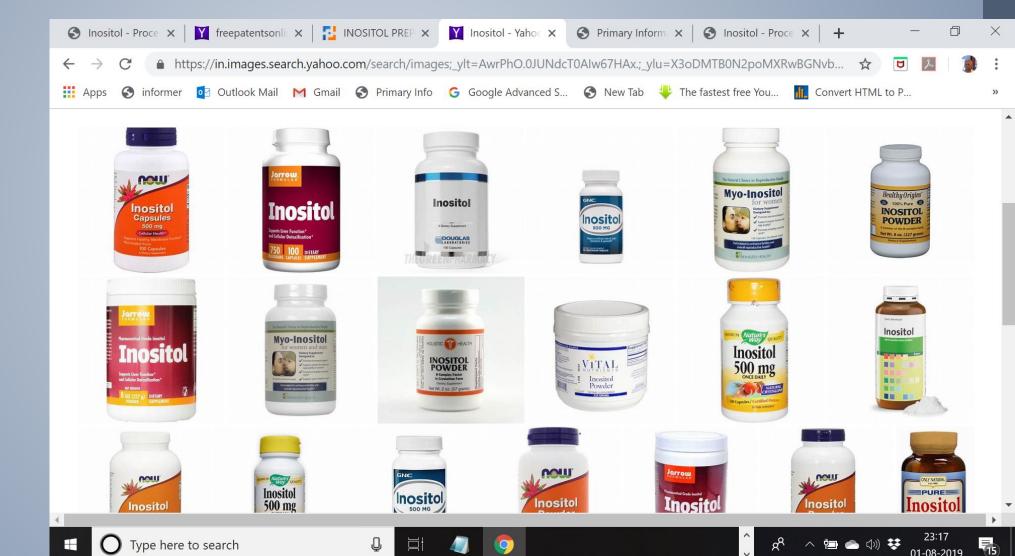
### What is "Inositol"?

Inositol is a vitamin-like substance. It is found in many plants and animals. It is also produced in the human body and can be made in a laboratory. Inositol can be found in many forms (called isomers).

The most common forms are myo-inositol and D-chiro-inositol.



# Inositol in the market place





## WHY "Inositol"?

Inositol is a naturally occurring nutrient that is usually classified as a carbocyclic polyol. The most common form is sometimes referred to as myo-inositol. In the human body, it plays a major role in preventing the collection of fats in the liver, as well as promoting healthy hair growth. The presence of the nutrient also aids in efficient processing of nutrients into the conversion of energy, which in turnhelps the body to maintain a healthy metabolism. It also can be considered brain food, as the nutrient isnecessary to properly nourish the brain.



# **Applications**

Some people take inositol by mouth for diabetes, nerve problems caused by diabetes, diabetes diagnosed during pregnancy (gestational diabetes), treating a disorder called metabolic syndrome and conditions associated with menopause and polycystic ovary syndrome (PCOS), including failure to ovulate, high blood pressure, high triglycerides, and high levels of testosterone

Segmentation by application:

Pharmaceuticals
Food & Beverages
Cosmetic
Feed Additive

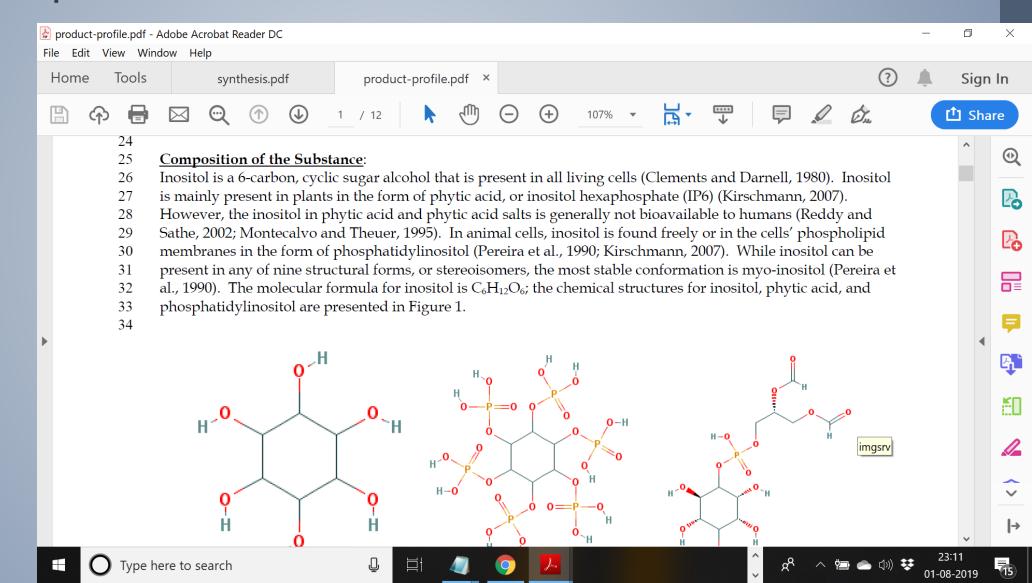


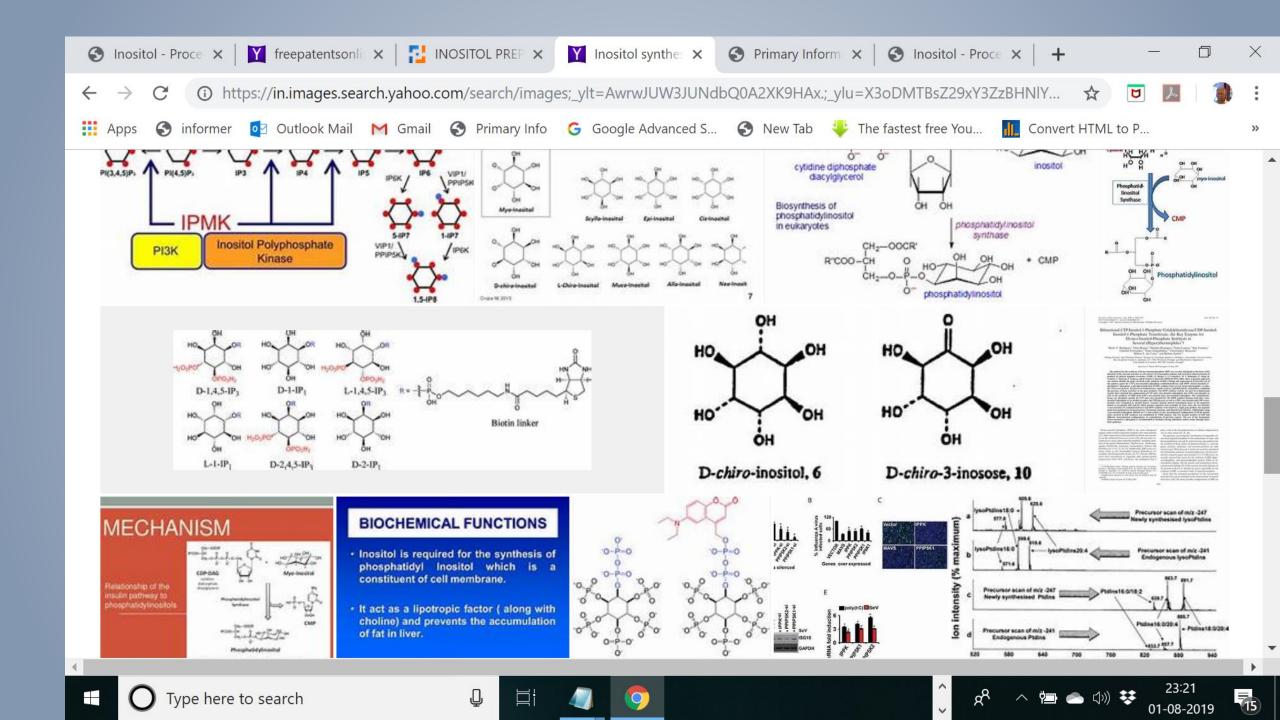
### **Inositol Derivatives**

myo-inositol, neo-inositol, allo-inositol, chiro-inositol, epi-inositol, muco-inositol, cis-inositol, scyllo-inositol, bicyclic inositols, bishomo-inositols



# Composition







# **Synthesis**

Myo-inositol was synthesized from D-glucose in several steps. Different synthetic pathways for myo-inositol and their phosphates derivatives have been developed during the years because of the important biological functions



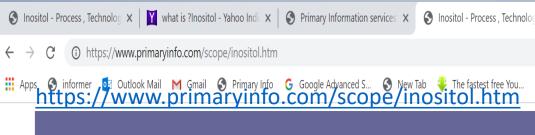
# **Patented Technology**

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### Inositol - database



### **Inositol**

Technology, Applications, Patent, Consultants, Company Profiles, Reports, Market, Projects

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### Information (a) a Glance

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• Inositol, (of which the most prominent naturally occurring form is myo-inositol, cis-1,2,3,5-trans-4,6cyclohexanehexol), is a carbocyclic polyol that plays an important role as the structural basis for a number of secondary messengers in eukaryotic cells, including inositol phosphates, phosphatidylinositol (PI) and phosphatidylinositol phosphate (PIP)

### **General Information**

- Inositol information
- Inositol
- Inositol Importance
- About Inositol
- Structure of Myo-Inositol-1-Phosphate
- What is Inositol?

### **Projects**

- Inositol lipid dependent acidification
- Quantification of my hexakisphosphate in extracts by solution 3 spectroscopy and spe deconvolution
- Structural characteriz

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#### Consultants

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- Consultant from China

#### Process

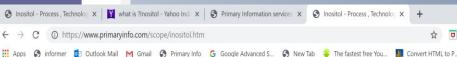
 Osmoregulatory changes in myo-Characterization of Inositol-

- di-myo-inositol-phosphate synthase (DIPPS): the first representative of a
- Identification and Control of Toxic Substance in Municipal Effluents
- Inositol Signalling Project
- · Second messengers and mechanisms o

#### **Products**

- · Inositol Capsules
- Choline-Inositol Complex
- · Inositol Crystals by Source Naturals
- InosoPhate 6TM
- D-myo-Inositol 1,3,4-trisphosphate
- Inositol Powder
- Inositol Pure Soluble Powder
- SOLGAR Inositol

### **Material Safety Data Sheet**



study checked cAMP and inositol

changes in the same animal model

Pig feed is mainly based on cereals

present in inositol hexaphosphate

(IP6), which is not readily available to

monogastric animals. More available

P sources are often added to ensure

that pigs' requirements are fulfilled;

this results in high excretion levels of

P. The digestibility of P depends on

The formation of inositol within the

animal body was used for the normal

simultaneously

feedstuffs.

① https://www.primaryinfo.com/scope/inositol.htm

It is found in many foods, in

content, nuts, beans, and fruit,

vitamin itself because it can be

Inositol is needed for health at

Men taking extra inositol reported

with less hair falling out - although

as well as the heart.

O Type here to search

particular, in cereals with high bran

oranges. Inositol is not considered a

cellular level and a fair concentration

Dictyostelium discoideum There is a paucity of data on the way · The Synthesis of Inositol in the (cAMP, inositol), qualitatively or immature rat and chick embryo quantitatively, altered in heart failure

#### (HF). These studies were performed Technology separately on animal models, but no

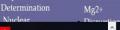
- Correlation of Myo-inositol Levels and Grading of Cerebral
- Purification, characterization and functional cloning of inositol
- Cerebrospinal fluid and plasma distribution of myoinositol and other polyols in Alzheimer disease
- Myocardial Concentrations of Inositol and cAMP in Intact Failured Rats
- A Novel Technique for the Pre-Concentration and Extraction of Inositol Hexakisphosphate from Soil Extracts with Determination

placebo-controlled trial

· Effects of Inositol Starvation on Phospholipid and Glycan Syntheses in Saccharomyces cerevisiae

#### Market & Report

- Supply & Demand of Inositol
- Varying Cost and Free Nicotinic Acid Content in Over-the-Counter Niacin Preparations for Dyslipidemia
- Inositol-Induced Mania
- Myo-inositol content in pteridophytes and the isolation and characterization synthase from Diplopterygium glaucum
- Dimerization of inositol but induced by binding of the activator



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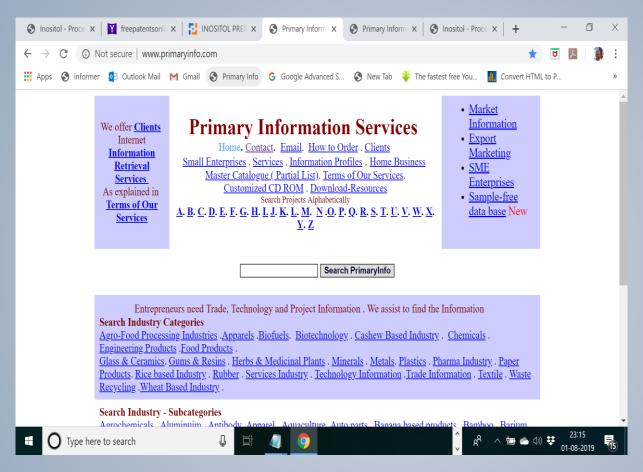








# QUESTIONS?



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